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INDEX TO DESOR'S
SYNOPSIS DES ÉCHINIDES
FOSSILES.

BY

F. A. BATHER, M.A., D.Sc., F.R.S.,
Of the British Museum (Nat. Hist.).

AVEC UNE NOTE SUR LES DATES DE PUBLICATION
DU "SYNOPSIS."

PAR

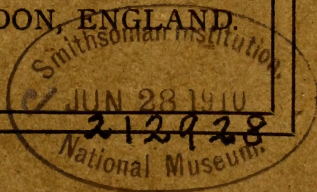
JULES LAMBERT,
Président du Tribunal Civil, Troyes.

PUBLISHED BY THE AUTHOR

AT

"FABO," MARRYAT ROAD, WIMBLEDON, ENGLAND.

MAY, 1910.



No. 16.

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P R E F A C E.

ALTHOUGH published more than half-a-century ago, the "Synopsis des Échinides Fossiles," by Pierre Jean Édouard Desor, is a work still in constant use by every serious worker on the Echinoidea. I say every worker, and not only every palaeontologist, for two reasons. First, the book, though professedly dealing with fossils, does actually contain several purely recent genera and species. Secondly, many of the genera, though included on account of their fossil representatives, are not entirely extinct, so that the student of the recent species is bound to consider their fossil allies and to take into consideration the names given to them.

Unfortunately reference to this work has always been rendered difficult by the lack of an index, a want that is felt more and more as time goes on, and as the various genera are sub-divided, and the species, for that or other reasons, appear under different generic names from those in the Synopsis. The present Index, therefore, has been prepared on the plan followed in the well-known "Index Animalium" of Mr. C. Davies Sherborn. It consists, that is to say, of two parts: in the first the species are arranged alphabetically under their trivial names; in the second the generic names are indexed, and each such name is followed by the number of the page on which its diagnosis occurs, and then by every trivial name that is anywhere associated with it in the Synopsis. The names of genera are also placed in their alphabetical position in Part I.

Certain details of the indexing require explanation. In drawing up the alphabetical order of Part I., no attention has been paid to the masculine, feminine, or neuter endings of one and the same adjective (*-us*, *-a*, *-um*, and *-is*, *-e*), but the sequence under that trivial name is determined by the alphabetic order of the generic names with which it is associated. This is the more necessary because Desor was not always either consistent or correct in his use of gender.

When names are spelled incorrectly or inconsistently by Desor, they are indexed as he spelled them, but a cross-reference to the correct spelling is given whenever it seems desirable. The same course has been followed with such variants as *Cidaris* and *Cidarites*, which clearly were not intended to represent distinct genera.

In Part I. a reference is given to every page on which a name occurs, as well as to the plates. The only exceptions are the pages of the Avertissement (vii.-xlv.), of the Tableau de la Distribution (xlvii.-lxviii.), which in itself constitutes an index of a different kind, and of the Tableau des Synonymes (455-483), which is yet another kind of index. Certain names or associations of names are, however, only to be found in these Tableaux, and have, therefore, been indexed. The indexing of the Plates is an important feature, since

they also contain some species and names that do not occur in the body of the work. Many names that occur only in these places, or in the additions and small-type notes of the Synopsis, are likely to be overlooked, and it is difficult to find them without such an Index as the present. Not only is every page referred to, but when there were two or more issues of a page, each is entered and distinguished by the addition of the date, thus (1857).

This last point is of particular importance, for, although every bound copy of the Synopsis is furnished with a title-page bearing the imprint "Paris, Wiesbade, 1858," and although the book is always assigned to that year in Library Catalogues and Bibliographies, still it was really published in livraisons or fascicules issued at various dates from 1855 to 1858; and some of the pages in earlier fascicules were subsequently cancelled and replaced by fresh pages, sometimes of increased number. Some names, e.g. *Palaeocidaris*, occur only in the earlier issues; others, e.g. *Leiocidaris*, only in the later ones.

To the systematist a knowledge of the dates at which the various fascicules were issued, and of the changes made in the text of cancelled pages, is an undoubted necessity; but it is a knowledge that most of us have been quite unable to obtain. It is therefore a peculiar pleasure to me to be able to publish with this Index a Bibliographic Note from the pen of Mr. Jules Lambert, whose profound knowledge of the fossil echinoids and of the literature relating to them is admired by all students. I am very grateful to him for allowing me to include this original matter in the present publication. On the facts determined by Mr. Lambert, combined with an examination of certain copies of the work, I have drawn up a collation for the use of librarians.

F. A. BATHER.

Wimbledon,
24 April, 1910.

NOTE SUR LES DATES DE PUBLICATION DU "SYNOPSIS DES ÉCHINIDES FOSSILES" DE DESOR.

PAR JULES LAMBERT.

EN raison du grand nombre d'espèces et de genres nouveaux décrits pour la première fois dans cet ouvrage, il y a un intérêt scientifique évident à connaître les dates exactes de sa publication. Malheureusement, si le titre porte le millésime 1858, aucune mention du texte ne permet de fixer les dates successives auxquelles ont paru les diverses livraisons. Certaines parties des premières livraisons ont d'ailleurs été postérieurement remaniées au cours de la publication pour l'introduction de coupes génériques nouvelles, et parfois les pages ainsi ajoutées ont été elles-mêmes encore changées. On comprend que dans ces conditions la plupart des auteurs aient hésité sur les dates à donner aux espèces et aux genres du Synopsis, et que de nombreuses erreurs aient été commises par Cotteau, par Alexander Agassiz et par Desor lui-même. Il est donc devenu nécessaire de rappeler aujourd'hui les incidents de la publication de l'ouvrage, qui, commencé en 1852, avait demandé à son auteur plusieurs années de travail.

Dans ce but Mr. de Lorient et moi sommes parvenus à nous procurer des exemplaires du Synopsis encore en livraisons, et d'après les indications des couvertures et l'examen des revues bibliographiques de l'époque, nous avons pu faire les constatations suivantes.

La première Livraison, imprimée à Neuchâtel chez Henri Wolfrath, contient 6 feuilles de texte, soit les pages 1 à 48, et les planches i. à ix. La couverture porte la date de 1854, mais, au moment où l'Éditeur, Ch. Reinwald à Paris, allait la mettre en vente, Desor y a introduit des "Remarques provisoires," datées à Paris du 28 mars 1855, et imprimées en cette ville chez Firmin Didot frères. La véritable date de publication de la 1^{re} livraison du Synopsis doit donc être placée, non en 1854, mais au plus tôt en avril 1855.

La deuxième Livraison, également imprimée à Neuchâtel, contient les feuilles 7 à 13 inclusivement, soit les pages 49 à 104, avec les planches x. à xvi. ; elle porte la date de 1855.

La troisième Livraison, la dernière imprimée à Neuchâtel, contient les feuilles 14 à 20, soit les pages 105 à 160, avec les planches xvii. et xviii. *bis* à xxi. Mais elle renferme en outre trois feuilles supplémentaires destinées à remplacer, la première les pages 1 et 2, la seconde les pages 47 à 50 et la troisième les pages 59 à 62 des livraisons précédentes. Elle porte la date de 1856.

Les nouvelles pages 1 et 2 font disparaître quelques inexactitudes de la première rédaction, complètent la diagnose de la Tribu des Salénies et ajoutent à la famille des Cidarides une quatrième Tribu des Tessélés.

Les nouvelles pages 47, 48 modifient encore la première livraison en supprimant le genre *Palaeocidaris*, remplacé par le genre nouveau *Leiocidaris*.

Les nouvelles pages 49, 50 ne modifient pas moins la deuxième livraison. Les *Palaeocidaris prisca* et *P. rossica* sont supprimées ; il n'est plus fait mention dans les généralités sur les Latistellés du genre *Plotia* ; mais la tribu est pour la première fois partagée en deux sections : les Oligopores et les Polypores. Les premiers sont groupés autour de trois types : les unigémisés, les sculptés et les trigémisés.

Les nouvelles pages 59 à 62 apportent au texte primitif de graves changements. Entre les genres *Hemidiadema* et *Hypodiadema*, Desor intercale le genre *Hemipedina* de Wright, comprenant les *H. Etheridgei*, *H. Marconissae*, *H. conformis*, *H. natheimense*, autrefois rapportés au genre *Hypodiadema*, et trois espèces nouvelles : *H. perforata*, *H. tuberculosa* et *H. lenticula*. Le genre *Hypodiadema* est très réduit ; outre les quatre espèces ci-dessus citées, il perd *H. Lamarcki*, ancien type du genre,* *H. radians*, *H. confluent*, *H. granulatum*, *H. gratiosum*, *H. lens*, *H. exile*, tous devenus des *Acrosalenia*.

La quatrième Livraison, imprimée comme les suivantes chez C. Adelmann à Francfort-sur-le-Mein, contient les feuilles 20 à 30, soit les pages 161 à 240, avec les planches xxii. à xxix. ; elle porte la date de 1857.

La cinquième Livraison contient les feuilles 31 à 40, soit les pages 241 à 320, avec les planches xxx. à xxxvii. ; elle porte également la date de 1857.

La sixième et dernière Livraison, publiée en 1858, contient les feuilles 41 à 61, soit les pages 321 à 488 et les pages 489 et 490 avec les planches xxxviii. à xlv. Elle contient en outre les titres, la dédicace, l'Avertissement, une réponse à Mr. Agassiz, formant 9 feuilles, soit les pages 1. à lxviii. Elle renferme enfin des cartons destinés à remplacer les pages 1 et 2 de la première livraison, déjà remplacées en 1856, et les pages 185 à 192 de la troisième livraison, avec adjonction des pages 188* et 191*.

Les nouvelles pages 1 et 2 modifient la division des Cidarides en Tribus par la suppression de la 4^e Tribu des Tessellés, dont Desor venait de faire une famille dans son Introduction.

Le remplacement des pages 185 à 192 de la quatrième livraison a pour effet d'ajouter au genre *Galerites* deux espèces : *G. Bargesanus* et *G. gurgitis*. Le genre *Globator* s'enrichit de deux espèces : *G. Bargesanus* et *G. Vionneti*. Puis Desor intercale, entre les genres *Globator* et *Nucleopygus*, *Anorthopygus* Cotteau, créé pour le *Nucleopygus costellatus* du texte primitif. *Nucleopygus* modifié ne conserve que *N. icaunensis*, *N. depressus* et *N. Koehlini*, mais *Pyrina* s'augmente des *P. ovalis*, *P. toucasana*, *P. ataciana*, et *P. incisa* ; ce dernier était un *Nucleopygus* en 1857.

Voici donc quelles sont en réalité les dates de publication des diverses parties du Synopsis :

* Of course if *H. Lamarcki* had really been the genotype, the genus *Hypodiadema* would thus have become a mere synonym of *Acrosalenia*. But here, as elsewhere, Mr. Lambert bases his statement on the fact that this species is represented *inter alia* on pl. x., with the legend "Types des genres *Hypodiadema*, *Hemidiadema* et *Hemicidaris*." That Desor did not here use the word "type" in the sense of "genotype" is, however, proved by the fact that three species of *Hemicidaris* are thus given as "Types du genre."—F. A. B.

ÉDITION DÉFINITIVE.

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J. L.

COLLATION OF A COPY BIBLIOGRAPHICALLY
COMPLETE (WRAPPERS EXCEPTED),
WITH ALL ISSUES.

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Half-title	i.	[1-VIII., fours in]	VI.	...	1858
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"Tableau de la Distribution" ...	xlvi.-lxviii. [err. lxiii.]	IX., 2 leaves
"Remarques provisoires" ... }	-1- - -4- ...	2 leaves	I.	...	Avril 1855
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INDEX TO GENERA.

The page referred to is that on which the genus is diagnosed or otherwise defined.

The trivial names following each generic name are all those found associated with it in the Synopsis, whether as valid specific names or as synonyms.

Varietal names are included among the trivial names in alphabetic order, and each is followed by the specific name to which it belongs.

Acrocidaris, 83 : *censoriensis*, *depressa*, *formosa*, *minor*, *nobilis*, *striata*, *tuberosa*.

Acrocladia, 137.

Acropeltis, 85 : *aequituberculata*, *concinna*.

Acrosalenia, 139 : *angularis*, *aspera*, *boloniensis*, *bouchardi*, *complanata*, *conformis*, *crinifera*, *decorata*, *depressa*, *elegans*, *exile*, *granulata*, *gratiosa*, *hemidacoides*, *interpunctata*, *koenigii*, *laevis*, *lamarckii*, *lens*, *loweana*, *lycetti*, *meriani*, *minuta*, *patella*, *pisum*, *pustulata*, *radians*, *radiata*, *rarispinata*, *spinosa*, *tenera*, *tuberculosa*, *virgulina*, *wiltoni*.

Agarites, 113.

Agassizia, 394 : *scrobiculata*.

Amblypneustes, 110.

Amblypygus, 255 : *americanus*, *apheles*, *arnoldi*, *dilatatus*, *melchiorii*.

Amphidetus, 406 : *cordatus*, *depressus*, *sartorii*, *subcentralis*, *virginianus*.

Amphiope, 235 : *bioculata*, *bisperforata*, *elliptica*, *perspicillata*.

Ananchytes, 329 : *analis*, *bicordatus*, *carinata*, *cinctus*, *conica*, *conoidea*, *cor-avium*, *corculum*, *cordata*, *crassissima*, *cruciferus*, *elato-depressa*, *ellipticus*, *eudesii*, *fimbriata*, *gibba*, *gravesii*, *hemisphaerica*, *latissima*, *minor*, *monardii*, *ovata*, *pilula*, *pyramidata*, *rustica*, *scutatus*, *semi-globus*, *spatangiformis*, *striata*, *subglobosus*, *sulcatus*, *tuberculata*.

Anaster, 217 : *studerii*.

Anorthopygus, 188a (1858) : *costellatus*.

Arachnoides, 230 : *placenta*.

Arbacia, 113 : *conica*, *conjuncta*, *depressa*, *forbesi*, *globosa*, *globulus*, *granulosa*, *hieroglyphica*, *jurassica*, *minima*, *monilis*, *nodulosa*, *pilosus*, *pulchella*, *richeriana*, *spadacea*.

Archaeocidaris, 153 : *kaiserlingii*, *koninckii*, *nerei*, *prisca*, *triserialis*, *urii*, *verneuillana*.

Archiacia, 324 : *cornuta*, *gigantea*, *sandalina*, *santonensis*.

Asteropyga, 83 : *radiata*.

Asterostoma, 196 : *excentricum*.

Boletia, 133.

Botriopygus, 278 : *campicheanus*, *coarctatus*, *cotteauanus*, *cylindricus*, *elegans*, *meyeri*, *minor*, *nucula*, *obovatus*, *ovatus*, *sueurii*, *testudo*, *toucasanus*.

Breynia, 408 : *carinata*, *crux-andrae*, *magna*, *sulcata*.

Brissopsis, 378 : *alarici*, *angusta*, *borsoni*, *branderiana*, *contracta*, *crescenticus*, *decliva*, *duciei*, *elegans*, *genei*, *intermedia*, *laticornis*, *lyricus*, *nicoleti*, *obliquata*, *oblonga*, *ovata*, *romuli*, *scutiformis*, *sismondae*, *sowerbyi*.

Brissus, 403 : *antiquus*, *carinatus*, *columbaris*, *cordieri*, *cruciatu*, *cylindricus*, *declivis*, *dilatatus*, *expansus*, *fragilis*, *helveticus*, *imbricatus*, *inaequalis*, *jutieri*, *latus*, *oblongus*, *placenta*, *rana*, *scillae*, *subacutus*.

Brontia, 182 : *lachmundi*, *prima*.

Caratomus, 249 : *avellana*, *faba*, *gehrdensis*, *hemisphaericus*, *latirostris*, *orbicularis*, *peltiformis*, *rostratus*, *sulcato-radiatus*, *trigonopygus*, *truncatus*.

Cardiaster, 344 : *ananchytis*, *benstedis* [*sic*], *bicarinatus*, *bourgeoisianus*, *cinctus*,

cotteauanus, excentricus, fimbriatus, fossarius, granulosus, hagenowi, italicus, ligeriensis, pilula, pygmaeus, rostratus, senonensis, zignonanus.
 Cassidulus, 288 : acquoreus, amygdala, belgicus, caribaeorum, complanatus, elatus, elongatus, faba, fibularioides, hayesianus, lapis-cancris, lenticulatus, marmini, ovalis, patelliformis, porpita, scutella, testudinarius, unguis, veronensis.

Catopygus, 282 : affinis, alpinus, avellana, carinatus, columbarius, conformis, cylindricus, depressus, ebrayanus, elongatus, excentricus, fenestratus, gallinus, gresslyi, laevis, neocomiensis, obovatus, obtusus, ovulum, parvulus, patelliformis, pyriformis, renaudi, subcarinatus, switensis, tenuiporus.

Cidarites, vide Cidaris.

Cidaris, 3 : acicularis, acuminifera, admeto, agassizii, alata, alsatica, alternans, amalthei, ambigua, ampla, anceps, angulata [err. pro cingulata], antiquata, areolatus, arietis, armata, aspera, asperula, austriaca, authentica, autissiodorensis, avena, avensionensis, baculifera, bavarica, bachei, benburbiensis, bertrandi, bicarinata, biformis, bispinosa, blainvillei, blumenbachii, boloniensis, bouchardi, bradfordiensis, brandis, braunii, bronnii, buchii, carinifera, carteri, cartieri, catenifera, cenomanensis, censiorensis, cervicalis, cinamomea, cingulata, circinatus, cladifera, clavigera, clunifera, colo(n)cynda, conoideus, constricta, copeoides, cornifera, cornutensis, corollaris, coronalis, coronata, cottaldina, courtaudina, crassa, crenularis, criniferus, cristata, crucifera, cucumifera, cucumis, curvata, cyathifera, cydonifera, cylindrica, danica, davoustiana, decorata, desmoulinii, desori, diadema, diatretum, distincta, doliolum, dorsata, drogica, edwardsii, elegans, elegans marginatus, elongata, euryanacantha, fasciculata, faujasii, filamentosa, filigrana, fistulosus, flexuosa, florigemma, forchhammeri, fowleri, galeottii, gastaldii, gemma, gerana, gibberula, gigantea, glandarius, glandifera, globiceps, globifera, grandaevus, granulata, granulo-striata, granulosus, guerangeri, hagenowi, halaensis [halacensis], hardouini, hastalis, hausmanni, heberti, heteracantha, heteropleura, hirsuta, hirta, histicroides, hofmanni, horrida, hystrix, ilminsterensis, imperialis, incurvata, insignis, interlineata, intermedia, jouanettii, jurensis, kaiserlingii, kleinii, klipsteini, koenigii, laevigata, laevispina, laeviuscula, lardyi, leptacantha, liagora, liasina, limaria, linearis, lineata, lingualis, longispina, lorieri, macroacantha, malum, mamillanus, mamillata, mantelli, margaritifera, marginata, maxima, meandrina, megalacantha, meyeri, miliaris, miletensis, minuta, miranda, mitratus, monilifera, monilipora, moraldina, munsteri, muricata, neocomensis, nereii, nobilis, nummulitica, oculata [sic], oliva, orbignyana, ornata, orobus, ovata, ovifera, papillata, parandieri, pentagona, perforata, perlata, perplexa, personata, philastarte, philipsii, pisifera, pistillum, pleracantha, poucheti, pretiosa, princeps, prionota, prisca, prismatica, propinqua, protei, pseudodiadema, punctata, punctatissima, punctillum, pustulifera, pustulosa, pyrifera, quenstedti, ramifera, ramondi, regalis, regularis, remifera, remigera, roemeri, rosaria, rossica, royssii, rugata, rysacantha, saemanni, salviensis, sceptrifera, schmideli, schmidlini, scrobiculata, scolopendra, scutiger, semiaspera, semicostata, serialis, serraria, serrata, signata, similis, sismondiae, smithii, sorigneti, spatula, speetonensis, spinosa, spinosissima, spinulosa, spiralis, stellulifer, stemmacantha, striatogranosa, striatula, striospina, strobilus, strombecki, stylophora, subangularis, subcoronata, subcylindrica, subnobilis, subnodosa, subpentagona, subprionota, subserrata, subsimilis, subspinosa, subteres, subularis, subvesiculosa, suevica, thouarsii, tiara, tombeckii, toreumaticus, triaculeatus, tribuloides, tricarinata, trigona, trigonacantha, trilaterus, tripterus, tripterygia, trispinatus, tuberculosa, tuberosa, tyrolensis, unionifera, urii, vagans, vallata, variola, variolaris, velifera, vendocinensis, venulosa, venusta, verneuli, verticillata, vesiculosa, waechteri, wissmanni, wrightii, zea-mays, zschokkei.

Claviaster, 325 : cornutus.

Clypeaster, 239 : acuminatus, affinis, agassizii, altus, beaumonti, bouei, brongniarti, conoideus, crassicosatus, crassus, cuvieri, depressus, dilatatus, ellipticus, excentricus, florealis, folium, fornicatus, gaimardi, geometricus, gibbosus, grandiflorus, hausmanni, halaensis, hemisphaericus, incurvatus, intermedius, jonesii, kleinii, laganoïdes, latirostris, latus, leskei, linkii, marginatus, martinianus, meridanensis, michelottii, minor altus var., oblongus, ovalis, oviformis, parvus, peltiformis, pentagonalis, placenta, placunarius, politus, portentosus, profundus, reidii, rosaceus, sandalinus, scillae, scutellatus, scutiformis, stelliferus, tarbellianus, tauricus, tumescens, turritus, umbrellae, varians.

- Clypeopygus, 273 : cerceleti, chavannesi, gresslyi, hugii, michelini, orbignyanus, oviformis, paultrii, quadratus, renaudi, robinaldinus, subquadratus.
- Clypeus, 275 : acutus, agassizii, angustiporus, boblayei, clunicularis, conoideus, davoustianus, dimidiatus, emarginatus, excentricus, hugii, lobatus, michelini, minor sinuatus var., orbicularis, ornatus, osterwaldi, patella, paultrii, rathieri, rimosus, rostratus, semisulcatus, sinuatus, solodurinus.
- Codechinus, 111 : gillieronii, pisum, rotundus, tallavignesii.
- Codiopsis, 112 : alpina, doma, lorini, michelini, pisum, pradoi, simplex.
- Coelopleurus, 96 : agassizii, delbosii, equis, forbesi, infulatus, pratti, radiatus, spinosissimus, wetherelli.
- Collyrites, 203 : acuta, aequalis, agassizii, analis, bicordata, brevis elliptica var., buchii, capistrata, carinata, castanea, censoriensis, conica, depressa, desoriana, dorsalis, dorsalis elliptica var., elliptica, elongata, eudesii, excentrica, faba, gervilli, geymardi, granulosa, hemisphaerica, inflata analis var., inflata bicordata var., loryi, major acuta var., maxima elliptica var., michelini, minor analis var., minor elliptica var., moeschii, moussoni, oblonga, orbignyana, ovalis ringens var., ovulum, pinguis, prior, ringens, siliceus, transversa, truncata bicordata var., voltzii.
- Conoclypus, 318 : acutus, aequidilatatus, anachoreta, bordae, bouei, conoideus, costellatus, crassissimus, cylindricus, duboisii, flemingi, leskei, leymmerianus, lucae, marginatus, microporus, osiris, ovatus, ovum, plagiosomus, pulvinatus, pyrenaicus, rhotomagensis, semiglobus, subcylindricus, varians, ybergensis.
- Conulus, 181 : albogalerus, bulla, globulus, hawkinsii, nodus, vulgaris.
- Coptosoma, 91 : archiaci, blanggianum, cribrum, degense, dubium, haimeii, nummuliticum, thomsoni.
- Cottaldia, 113 : benettiae, buchii, granulosa, sorigneti.
- Cyclaster, 378 : alarici, declivus.
- Cyphosoma, 86 : corollare, cribrum, delamarrei, difficile, dimidiatum, magnificum, milleri, nummuliticum, ornatissimum, paucituberculatum, perfectum, regulare, rugosum, subgranulatum, sulcatum, tenuistriatum, tiara.
- Dendraster, 234 : excentricus.
- Desorella, 194 : drogiaca, elata, orbignyana.
- Desoria, 194, 424 : australis, icaunensis, orbignyana.
- Diadema, 82 : aequale, affine, ambiguum, annulare, archiaci, arenatum, autissiodorensis, bakeriae, benettiae, blanggianum, bourgueti, bruntrutianum, carthusianum, colloviense (err. pro calloviense), complanatum, conforme, corona, courtaudinum, crenulare, davidsonii, depressum, dilatatum, distinctum, drogiacum, dubium, europeum, florescens, foucardi, gervillii, globulus, granulare, granulosum, grasioi, heberti, hemisphaericum, homostigma, humile, icaunense, inaequale, jobae, kleinii, koenigii, lamarkii, lucae, lusseri, macrostoma, malbosii, mamillanum, meriani, michelini, microceon, microporum, miliare, minimum, moorei, nobile, nysti, orbignyanum, ornatum, pentagonum, perriqueti, picteti, placenta, polystigma, priscum, pseudodiadema, pseudo-hemicidarid, pusillum, rathieri, raulini, repellini, rhodani, ricordeanum, robinaldinum, roissii, rotulare, ruppellii, savignyi, seriale, sinaicum, spinosum, subangulare, subcomplanatum, subnudum, sulcatum, superbum, tenue, tetragramma, tetrastichum, texanum, textum, transversum, turcarum, uniforme, variolare, versipora.
- Diademopsis, 79 : bechei, bowerbankii, buccalis, crinifera, globulus, heeri, jurensis, laffonii, michelini, microgramma, micropora, minima, moorei, nodoti, prisciniacense, quenstedti, serialis, striospina.
- Diplocidarid, 44 : alternans, censoriensis, cinamomea (cimamomea), cladifera, desorii, gigantea, gigantea desori, heuvelinii, wrightii.
- Diplophorus, 133.
- Diplopodia, 75 : anonii, archiaci, autissiodorensis, baylei, bipunctata, calloviensis, colloviensis, courtaudina, distincta, echinata, icaunensis, jobae, malbosii, nobilis, pentagona, robinaldina, roissii, sinaica, subangularis, subnuda, sulcata, triboleti, variolaris, verneuii, versipora.
- Discoidea, 175 : concava, conica, cylindrica, davoustiana, decorata, depressa, dixonii, excisa, favrina, hemisphaerica, infera, inflata, laevisima, macropyga, marginalis, maxima, minima, pisum, plana, pulvinata, rotula, speciosa, suboculus, turrita.
- Dysaster, 201 : acutus, aequalis, ampla granulatus var., analis, anasteroideus, avellana,

bicordatus, bruckneri, buchii, capistratus, carinatus, conicus, dorsalis, eudesii, excentricus, geymardi, granulatus, hemisphaericus, loryi, malum, michelini, moeschii, munsteri, ovalis, ovulum, propinquus, ringens, robinaldinus, semiglobus, siliceus, subelongata, subringens, suprajurensis, symmetricus, truncatus, voltzii.

Echinanthus, 291 : altus, bavaricus, brongniarti, cuvieri, delbosii, depressus, desmoulinsii, ellipsoïdalis, halaensis, hemisphaericus, heptagonus, humilis, latus, michelini, minutus, mortonis, munsteri, orbiculatus, ovatus, profundus, scutella, sopitianus, subcarinatus, subrotundus, subsimilis, testudinarius, tumidus, vassalli.

Echinarachnius, 230 : incisus, juliensis, parma, porpita.

Echinites : clunicularis, cordatus, depressus, infulatus, lapis-cancris, patellaris, peltiformis, pyriformis, rotularis minor, saxatilis, siliceus, spatagoidaeus, stellatus, subulatus, vulgaris.

Echinobrissus, 263 : alpinus, amplus, bourgeoisii, bourgueti, bourguignati, calviensis, campicheanus, clunicularis, collegnii, cordatus, costulatus, cottaldinus, crepidula, deshayesi, du-boisii, elongatus, goldfussii, gracilis, grasanus, gresslyi, icaunensis, koechlini, lacunosus, lamarcii, major, martinii, michelini, minimus, minor, morrisii, moulinsii, neocomiensis, nicoleti, olfersii, orbicularis, orbignyianus, oviformis, parallelus, placenta, planior, planulatus, pulvinatus, renaudi, requieni, renggeri, roberti, salviensis, scrobiculatus, scutatus, subquadratus, suevicus, tuberculatus, truncatus, woodwardi.

Echinocardium, 406 : arcuarium, cordatum, deikei, depressum, sartorii, subcentrale, virginianum.

Echinocidaris, 112.

Echinoclypeus : umbrella.

Echinoconites, 181 : hemisphaericus.

Echinoconus, 179 : bargesianus, castanea, conicus, gigas, globosus, hemisphaericus, mixtus, nucula, orbicularis, rhotomagensis, roemerii, scutatus, subconicus, subpyramidalis, subrotundus, vere conicus.

Echinocorys, 329 : grasanus, minor, ovatus, papillosus, pustulosus, scutatus, sulcatus, vulgaris.

Echinocorytes : ovatus, minor.

Echinocrinus, 153 : munsterianus, triserialis, urii.

Echinocyamus, 217 : affinis, alpinus, altavillensis, ambiguus, angulosus, annonii, costulatus, hispidulus, inflatus, maximus, obtusus, occitanus, ovatus, oviformis, placenta, planulatus, profundus, propinquus, pusillus, pyriformis, scutatus, sculus, studei, subcaudatus, suffolciensis.

Echinodiscus, 238 : bisperforatus, digitatus, orbicularis, quinques perforatus, rumphii, sexies perforatus.

Echinolampas, 300 : acuta, affinis, agassizii, alberti, amygdala, angulatus, beaumonti, blainvillei, blumenbachii, brevis curtus var., brevis, brongniarti, burdigalensis, chaumontianum, columbaris, curtus, cuvieri, dekinii, dilatatus, discoideus, discus, dorsalis, ellipsoïdalis, ellipticus, escheri, eurypygus, eurysonus, faujasii, francii, fungiformis, galleotianus, hayesianus, hemisphaericus, hoffmanni, intermedius, jaquemonti, kleinii, lampas, laurillardi, linkii, minor, ovalis, ovatus, oviformis, ovum, politus, productus, pulvinatus, pustulatus, richardi, scutiformis, semiglobus, similis, sindensis, spheroidalis, stelliferus, studei, subacutus, subangulatus, subcylindricus, subdorsatus, subsimilis, vicaryi.

Echinometra, 136 : circinnata, lachmundi, mirabilis, thomsoni.

Echinoneus, 197 : albogalerus, conformis, cyclostomus, ovatus, oviformis foss., placenta, scutatus, scutiformis, subglobosus.

Echinopsis, 98 : arenata, bechei, calva, contexta, depressa, edwardsi, elegans, gacheti, latipora, leymerii, natheimensis, nucella, pusilla, rotata, sentisiana, smithii.

Echinopygus, 310 : lampas, rostratus.

Echinospatagus, 351 : argilaceus, breynianus, collegnii, cordiformis, gibbus, granosus, leymertianus, neocomiensis, prunella, roulini, subcylindricus.

Echinus, 123 : acanthodes, albogalerus, albus, altus, alutaceus, antiquus, arenatus, areolatus, astensis, benettiae, bigranularis, buchii, cadomensis, caillaudi, carantonianus, carinatus, cataphractus, catenatus, caumonti, charlesworthii, circinatus, clunicularis, complanatus, cordatus, costatus, depressus, diadematus, diademoides, distinctus, dixonianus, doma, dubius, duciei elegans, equis, exca-

- vatus, fallax, gacheti, germinans, globulus, granulosus, gravesii, gyratus, henslovii, hexaporus, hieroglyphicus, homocyphus, infulatus, intermedius, koenigii, lacunosus, laevis, lamarckii, leymerii, lineatus, lyellii, melo, menardi, microstoma, milleri, minor bigranularis var., minutus, mirabilis, monilis, multi-granularis, neglectus, nitidus, nodulosus, orbignyanus, ovatus, paradoxus, parvus, patagonensis, patellaris, peltatus, peltiformis, pentaporus, perlatus, petaliferus, planus, polyporus, psammophorus, pulcher, punctatus, purpureus, pusillus, pustulosus, pyriformis, radiatus, rathieri, robinaldinus, rosaceus, rotularis, rotundus, ruffini, saxatilis, scillae, sculptus, scyllae, semiplacenta, serialis, serratus, serresii, siliceus, spatagoides, sphaera, stellatus, subrotundus, subuculus, subulatus, sulcatus, textilis, theveneti, toreumaticus, tuberculatus, vacheyi, vulgaris, woodi, woodwardii.
- Enallaster, 357 : fittoni, greenovii, renevieri, texanus, tschudii.
- Encope, 237.
- Eocidaris, 155 : kaiserlingii, laevispina, munsterianus, rossica, scrobiculata, verneuillana.
- Epiaster, 360 : acutus, aquitanicus, crassissimus, distinctus, koechlianus, polygonus, trigonalis, tumidus, varusensis.
- Eucosmus, 116 : decoratus.
- Eupatagus, 413 : carinatus, de koninkii [*sic*], duvalii, elongatus, lateralis, magnus, minor, navicella, nummulinus, ornatus, patellaris, rostratus, veronensis.
- Eurhodia, 300 : morrisi.
- Faorina, 423 : antarctica, chinensis.
- Faujasia, 316 : apicalis, delaunayi, faujasii, florealis, roemeri.
- Fibularia, 220 : affinis, alpina, francii, studeri, subcaudata, subglobosa.
- Galeola, 332 : papillosa, undosa.
- Galeopygus, 167 : agariciformis, disculus, marcou [*sic*].
- Galerites, 181 : abbreviatus, albogalerus, angulosa, antiquus, apertus, bacca, bargesanus, bordae, canaliculatus, castanea, conica, conoideus, conulus, cretosus, cylindricus, depressus, elongatus, globosus, globulus, gurgitis, hawkinsii, hemisphaericus, laevis, leskei, mixtus, nucula, oblongus, orbignyanus, ovalis, ovatus, ovum, patella, pulvinatus, pygaea, pyramidalis, rhotomagensis, rotula, rotularis, scutiformis, semiglobus, speciosus, subrotundus, subsphaeroidalis, subuculus, sulcato-radiatus, truncatus, turonensis, umbrella, vulgaris.
- Galeropygus, vide Galeopygus.
- Globator, 186 (1857), 187 (1858) : bargesanus, gigas, lorieri, nucleus, nucula, petrocoriensis, vionneti.
- Glyphocyphus, 102 : cannabis, conjunctus, depressus, difficilis, pusillus, radiatus, tenuistriatus.
- Glypticus, 95 : affinis, burgundiacus, hieroglyphicus, integer, koninckii, sulcatus.
- Goniocidaris, 48 : geranioides.
- Goniophorus, 146 : apiculatus, lunulatus.
- Goniopygus, 93 : bronni, decoratus, delphinensis, globosus, heteropygus, intricatus, irregularis, major, major menardi var., menardi, minor, minor peltatus var., pelagiensis, peltatus, perforatus, sulcatus.
- Grasia, 212 : elongata.
- Gualtieria, 406 : orbignyana.
- Haimea, 256 : caillaudi.
- Hardouinia, 295 : mortoni.
- Heliechinus, 132.
- Heliocidaris, 135 : mirabilis, variolosa, variolaris.
- Hemiaster, 367 : acuminatus, acquifissus, affinis, alarici, altissimus, amplus, amygdala, angustipneustes, anticus, asterias, bailyi, birostratus, borsoni, bowerbankii, branderianus, brevisculus, bucardium, bucklandi, bufo, canaliculatus, complanatus, conradi, constrictus, cor, cosoni, costifer, cotteauui, cubicus, desorii, digonus, elatus, eupetalum, expansus, fournei, foveatus, globosus, grateloupi, griepengerli, inaequalis, inflatus, koninkanus, lacunosus, latisulcatus, leymerii, ligeriensis, major, minimus, morrisii, moulinsanus, murchisoniae, nasutulus, neustriacae, nicoleti, nucleus, nucula, nux, obesus, orbicularis, orbignyanus, parastatus, passyanus, phrynus, pisum, pomum, prestwichii, prunella, punctatus,

- pusillus, rana, regulusanus, ricordeanus, romuli, saulcyanus, scillae, sexangulatus, similis, sismondae, stella, stellatus, subalpinus, subglobosus, suborbicularis, texanus, toucasanus, tuber, tumidus, verneuilli, verticalis.
- Hemibrissus, 400 : crescenticus, elegans, genei.
- Hemicidarid, 50 : acinum, admeto, alpina, angularis, archiaci, boloniensis, braverideri, buccalis, cartieri, clunifera, confluens, crenularis, davidsoni, depressa, desoriana, diademata, fistulosa, flexuosa, granulata, granularis alpina var., granulosa, gratiosa, guerangeri, guerini, hofmanni, icaunensis, inermis, intermedia, koenigii, laevis, lamarckii, langrunensis, lestocquii, luciensis, lybica, mammosa, marconissae, maxima, meryaca, mespilum, minor, mitra, neocomensis, ovifera, patella, pseudo-hemicidarid, purbeckensis, pustulosa, quenstedti, radians, ramsayii, rathieriana, regularis, ricetensis, robinaldina, saleniformis, sarthacensis, scolopendra, stokesi, stramonium, subconica, thurmanni, undulata, wrightii.
- Hemidiadema, 57 : bakeri, davidsoni, gagnebini, robinaldina, rugosum, seriale, stramonium, subconicum.
- Hemipatagus, 416 : affinis, archiaci, cosoni, depressus, grignonensis, hoffmanni, integer, pendulus, praelongus, pulchellus, pustulatus, simplex.
- Hemipadina, 59 (1856) : bakeri, bechei, bonei, bouchardi, bowerbankii, conformis, corallina, cunningtoni, davidsoni, etheridgii, gresslyi, guerangeri, jardini, lenticula, lenticulata, lorieri, marchamensis, marconissae, michelini, microgramma, morrisii, natheimensis, nodoti, perforata, tetragramma, tuberculosa, waterhousi, woodwardi.
- Hemipneustes, 348 : africanus, fittoni, greenovii, radiatus.
- Heteraster, 355 : couloui, oblongus.
- Holaster, 336 : altus, amplus, amygdala, bicarinatus, bisulcatus, campicheanus, campichei, carinatus, cenomanensis, cinctus, comanches, complanatus, conicus, cor-avium, cordatus, cordiformis, couloui, equalis, fimbriatus, granulatus, grasanus, greenoughii, indicus, inflatus, integer, intermedius, italicus, laevis, latissimus, l'hardyi, marginalis, nasutus, oblongus, perrezii, pilula, planus, pyriformis, rehsteineri, rostratus, roulini, sandoz, semistriatus, senonensis, simplex, striato-radiatus, subcylindricus, subglobosus, suborbicularis, transversus, trecensis, truncatus, vernonnetensis.
- Holactypus, 168 : antiquus, arenatus, concavus, cenomanensis, corallinus, depressus, devauxianus, drogiacus, dumasii, giganteus, grasii, hemisphaericus, inflatus, macropygus, mandelslohi, meriani, neocomensis, oblongus, ormoisianus, planatus, planus, punctulatus, raulini, sanctae-crucis, sarthasensis, serialis, similis, speciosus, striatus, subdepressus, subuculus, turonensis, zschokkei.
- Holopneustes, 133 : porosissimus.
- Hyboclypus, 192 : agariciformis, canaliculatus, caudatus, disculus, elatus, elongatus, gibberulus, marcou [sic], ovalis, sandalinus, stellatus.
- Hypechinus, 130 : patagonensis.
- Hypodiadema, 59 (1855), 61 (1856) : acinum, admeto, calvum, confluens, conforme, desorianum, dilatatum, etheridgii, exile, floescens, granulatum, gratiosum, guerangeri, heberti, inermis, laeve, lamarckii, lens, marcouissae [sic], natheimense, patella, plotii, prisciniacense, radians, regularis, rotula, rugosum, saleniforme, wrightii.
- Hyposalenia, 147 : courtaudina, heliophora, lardyi, meyeri, punctata, stellulata, studeri, wrightii.
- Infulaster, 347 : borchardi, excentricus, hagenowi, krausei, rostratus.
- Isaster, 359 : amygdala, aquitanicus.
- Kleinia, 423 : luzonica.
- Lagana : profunda, rogersi.
- Laganum, 227 : angulosum, attenuatum, bonanii, columbianum, depressum, ellipticum, marginale, marmonti, orbiculare, peronii, reflexum, rostratum, rotundum, scutiforme, tenuatum, tenuissimum.
- Leiocidarid, 48 (1856) : imperialis.
- Lenita, 222 : faba, patellaris, patelloides.
- Leskia, 424 : mirabilis.
- Leptocidarid, 437 : triceps.

Linthia, 395 : *cruciata*, *insignis*, *spatangoïdes*.
Lobophora, 235 : *bifissa*, *bifora*.
Loxechinus, 136 : *albus*.

Macropneustes, 409 : *ammon*, *beaumonti*, *brissoïdes*, *chitonosus*, *cosoni*, *crassus*, *deshayesii*, *desorii*, *gibbosus*, *marmorae*, *meneghini*, *minor*, *prevostii*, *pulvinatus*, *requieni*, *subovatus*.

Macropygus, pl. 22 : *truncatus*.

Magnosia, 115 : *decorata*, *forbesi*, *jurassica*, *lens*, *nodoti*, *nodulosa*, *pilosulchella*, *punctata*, *richeriana*, *tetrasticha*.

Manopneustes, err. pro *Macropneustes*, 410.

Melebois, 109 : *mirabilis*.

Mellita, 236 : *hexapora*, *similis*, *testudinata*.

Melonites, 159 : *multiplora*.

Meoma, 423 : *grandis*.

Mespilia, 110 : *globulus*.

Metaporhinus, 210 : *ensoriensis*, *geymardi* (*gueymardi*), *melinii*, *munsteri*.

Micraster, 360 : *acutus*, *aquitanicus*, *arenatus*, *beaumonti*, *brevis*, *breviporus*, *brevi-sulcatus*, *brongniarti*, *cor-anguinum*, *cor-bovis*, *cor-columbarium*, *cordatus*, *cordiformis*, *cor-testudinarium*, *deshayesii*, *desorii*, *distinctus*, *edwardsii*, *gibbus*, *gleizezei*, *helveticus*, *integer*, *koechlianus*, *latus*, *laxoporus*, *leskei*, *major*, *matheronii*, *melinii*, *minimus*, *murchisoni*, *polygonus*, *pulvinatus*, *renouxii*, *sexangulatus*, *subacutus*, *trigonalis*, *tropidotus*, *tumidus*, *undulatus*.

Microcyphus, 110.

Micropsis, 451 : *desori*.

Milnia, 140 : *decorata*.

Moera, 394 : *atropos*, *lachesis*.

Monophora, 234 : *darwinii*.

Mortonia, 231 : *rogersi*.

Moullinsia, 222 : *cassidulina*.

Nucleolites, 263 : *agassizii*, *alpinus*, *amplus*, *analis*, *approximatus*, *archiaci*, *bomarii*, *bourgeoisii*, *britannica*, *canaliculatus*, *carinatus*, *castanea*, *cerceleti*, *clunicularis*, *collegnii*, *columbaria*, *conicus*, *cor-avium*, *cordatus*, *costulatus*, *crepidula*, *crucifer*, *cruciferus*, *decollatus*, *depressus*, *dilatatus*, *dimidiatus*, *edmundi*, *elongatus*, *emarginatus*, *excentricus*, *excisus*, *faba*, *goldfussii*, *gracilis*, *granulosus*, *gresslyi*, *grignonensis*, *heptagona*, *koechlini*, *lacunosus*, *laevis*, *lamarckii*, *lapis-cancr*, *lata roberti* var., *latiporus*, *major*, *marmini*, *melinii*, *micraulus*, *minimus*, *minor*, *minutus*, *morrisii*, *mortoni*, *munsteri*, *neocomiensis*, *nicoleti*, *oblongus*, *obovatus*, *olfersii*, *orbicularis*, *oviformis*, *ovulum*, *parallelus*, *paraplesius*, *patella*, *patellaris*, *planulatus*, *pyramidalis*, *pyriformis*, *quadratus*, *recens*, *renaudi*, *requieni*, *ricordeanus*, *roberti*, *robinaldinus*, *salviensis*, *sancti meinradi*, *sarthasensis*, *scrobiculatus*, *scutatus*, *scutatus suevicus*, *scutella*, *semiglobus*, *similis*, *solodurinus*, *sowerbyi*, *subcarinatus*, *subquadratus*, *terquemi*, *testudinaris*, *thurmanni*, *truncatulus*, *umbrella*, *woodwardi*.

Nucleopygus, 188 (1857), 188a (1858) : *cor-avium*, *costellatus*, *depressus*, *icaunensis*, *incisus*, *koechlini*, *minor*.

Offaster, 333 : *bourgeoisianus*, *inflatus*, *pilula*, *rostratus*, *zignonianus*.

Oolopygus, 286 : *bargesii*, *pyriformis*.

Opechinus, 107 : *costatus*, *hookeri*, *percultus*, *rousseaui*, *tuberculosus*, *valenciennesi*.

Pachyclypus, 195 : *semiglobus*.

Palaechinus, 157 : *elegans*, *ellipticus*, *gigas*, *konigii*, *phillipsiae*, *sphaericus*, *verneuillanus*.

Palaecidaris, 48 (1855) : *nerei*, *prisca*, *rossica*, *spinosa nerei* var.

Pedina, 100 : *arenata*, *aspera*, *aspera sublaevis* var., *bakeri*, *charmassei*, *davoustiana*, *etheridgii*, *gervillii*, *gigas*, *granulosa*, *inflata*, *melinii*, *ornata*, *rotata*, *sinaica*, *smithii*, *sublaevis*, *subnuda*.

Peltastes, 145 : *acanthodes*, *courtaudina*, *marginalis*, *pentagoniferus*, *pulchellus*, *punctatus*, *stellulatus*.

- Periaster, 382 : aequifissus, altissimus, bucardium, bucklandi, canaliculatus, complanatus, conicus, elatus, expansus, fourneli, herklotsi, inaequalis, inflatus, latisulcatus, leymerii, obesus, oblongus, passyanus, rana, spatangoides, subgloboseus, suborbicularis, subquadratus, texanus, undulatus, verticalis.
- Pericosmus, 396 : aequalis, altus, asperulatus, brevisulcatus, distinctus, edwardsii, elatus, granuloseus, latus, parvus, planulatus, pomum, rotundatus, scutiformis.
- Perischodonus, 157 : biserialis.
- Phymechinus, 133 : mirabilis.
- Phymosoma, 102 : beaumonti, carantonianum, circinatum, corollare, delamarrei, dimidiatum, girumense, granuloseus, heberti, koenigii, loryi, magnificum, neocomiense, nummuliticum, paucituberculatum, perfectum, princeps, regulare, rugosum, saxatile, sulcatum, texanum.
- Pileus, 167 : hemisphaericus.
- Plagionotus, 405 : pectoralis.
- Plotia, 50 (1855).
- Podophora, 132.
- Polycidaris, 437 : multiceps.
- Polycyphus, 117 : arenatus, benettiae, buchii, corallinus, deslongchampsii, distinctus, nodulus, nodulosus, normannus, stellatus, textilis.
- Porocidaris, 46 : schmideli, serraria, serrata, veronensis.
- Prenaster, 401 : alpinus, birostratus, elongatus, helveticus, jutieri, perplexis, sorigneti, sowerbyi, subacutus.
- Psammechinus, 118 : alutaceus, caillaudi, catenatus, charlesworthii, duciei, fallax, gravesii, henslovii, homocyphus, hyselyi, michelottii, miliaris, minimus, mirabilis, monilis, montmollini, parvus, rathieri, romanus, ruffini, serresii, spadae, tenuis, theveneti, woodwardii.
- Pseudodiadema, 63 : aequale, affine, annulare, aroviente, bailyi, bakeriae, benettiae, blancheti, blanggianum, bourgueti, brongniarti, bruntrutianum, carinella, carthusianum, complanatum, depressum, diatretum, drogiacum, fouchardi, frasi, granulare, grasii, guerangeri, hemisphaericum, homostigma, inflata lybicum var., inaequale, kleinii, langii, lenticulatum, lucae, lusseri, lybicum, macrostoma, mamillanum, mamillatum, michelini, miliare, neglectum, neocomiense, nysti, orbignyanum, ornatum, parkinsoni, pentagonum, periqueti, picteti, pingue, piniforme, placenta, planissimum, princeps, prisciniacense, pulchellum, radiatum, rathieri, raulini, repellini, rhodani, roemeri, rotulare, ruppellii, sismondiae, subangulare, subcomplanatum, superbum, tenue, tetragramma, tetrasticha, texanum, textum, triseriale, uniforme, vagans, verneulli, versipora, waldense, wrightii.
- Pseudopedina, 490 : divionensis, nodoti.
- Pygaster, 164 : conoideus, costellatus, depressus, dilatatus, edwardseus, gresslyi, koechlini, laganoides, macrocyphus, morrisii, patelliformis, pileus, pumilus, semisulcatus, tenuis, trigeri, truncatus, umbrellae.
- Pygaulus, 251 : affinis, columbaris, cylindricus, depressus, desmoulinii, expansus, macropygus, morloti, ovatus, pulvinatus, sentisianus, studeri, subaequalis, subinferus, toucasanus, zonatus.
- Pygorhynchus, 297 : brongniarti, collombi, crassus, cuvieri, delbosii, depressa crassus var., desmoulinii, desnoyersii, desorii, elatus, gouldii, grignonensis, heptagonus, inflata scutella var., jamaicensis, latus, linkii, morrisii, mortonis, obovatus, planatus, rostratus, scutella, sopitianus, subcarinatus, subcylindricus, subrotundus, testudo, tumidus, vassalli, wrightii.
- Pygurus, 309 : acutus, apicalis, blumenbachii, coarctatus, columbianus, conicus, depressus, emarginatus, faujasii, florealis, fragilis, fungiformis, geometricus, hausmanni, icaunensis, jurensis, lampas, marmonti, meyeri, michelini, minor, montmollini, morloti, nasutus, obovatus, orbiculatus, orbignyanus, oviformis, pentagonalis, productus, pulvinatus, ricordeanus, rogerianus, rostratus, tenuis, trilobus.
- Pyrina, 190 : ataciana, bargesana, campicheana, castanea, cylindrica, depressa, depressa pygaea var., desmoulinii, echinonea, freuchenii, goldfussii, incisa, inflata, laevis, montainvillensis, nucleus, orbignyanus, ovalis, ovata, ovulum, paumardi, petrocoriensis, pygaea, raphaeli, rotula, toucasana.
- Rabdodidaris, seu Rhabdodidaris, 39 : blainvillei, copeoides, crassa, crenata, cristata, gigantea, guttata, junonis, maxima, megalacantha, mitrata, moraldina,

nobilis, oppelli, orbignyana, princeps, prismatica, remus, ritteri, salviensis, smithii, spatula, tournali, triaculeata, tricarinata, trigonacantha, trilatera, trispinata, tuberosa.

Rhynchopygus, 287 : galeatus, guadeloupensis, marmini, nasutus.

Rotula, 238 : augusti.

Rumphia, 229 : decagona, rostrata.

Runa, 221 : comptoni, decemfissa.

Salenia, 148 : acupicta, anthophora, areolata, clathrata, depressa, folium-querci, geometrica, gibba, heliophora, incrustata, minima, peltata, pentagonifera, perforata, petalifera, personata, prestensis, rugosa, scripta, scutigera, stellifera, stellulata, studeri, triboleti, trigeri, trigonata.

Salmacis, 108 : bicolor, pepo, vandeneckei.

Savignya, 82.

Schizaster, 389 : aequifissus, agassizii, ambulacrum, amplus, bellardi, beloutchistanensis, borsoni, canaliferus, cerasus, costifer, cultratus, desorii, djulfensis, d'urbani, eurynotus, foveatus, genei, goldfussii, graecus, grateloupi, intermedius, lachesis, lacunosus, latus, leymerii, major, newboldi, ovatus, parkinsoni, raulini, rimosus, scillae, stellatus, studeri, subincurvatus, subrhomboidalis, verticalis, vicinalis.

Scutella, 231 : altavillensis, ambigua, bifora, bioculata, brongniarti, clypeastriformis, crustuloides, decagona, decemfissa, elliptica, faujasii, germinans, gibbercula, hexapora, incisa, inflata, jonesii, leyelli, macrophora, marginalis, michelini, nummularia, occitana, patagonensis, paulensis, pentapora, polygona, porpita, producta, propinqua, pyramidalis, quinquefora, rogersi, sexforis, smithiana, stellata, striatula, subrotunda, subtetragona, truncata.

Scutellina, 223 : elliptica, fibularoides, lenticularis, hayesiana, nummularia, obovata, placentula, porpita, rotunda, supera.

Scutum : angulare-humile, chaumontianum, issyauiese.

Sismondia, 225 : annonii, costulata, crustuloides, incisa, leyelli, marginalis, maxima, occitana, planulata, profunda.

Sphaerechinus, err. pro Sphaerechinus (q.v.).

Spatangites, vide Spatangus.

Spatangus, 419 : acuminatus, acutus, affinis, ambulacrum, amygdala, ananchytis, ananchytoides, anticus, aquitanicus, archiaci, arcuarius, argilaceus, asterias, atropos, bicordatus, bituricensis [*sic*], brissoïdes, bucardium, bucklandi, bufo, canaliferus, capistratus, carinatus, chitonosus, chloriteus, columbaris, complanatus, cor-anguinum, cor-anguinum norvegicum, cordatus, cordiformis, cor-marinum, corsicus, cor-testudinarium, crassissimus, de koninckii, delphinus, depressus, desmarestii, elatus, elongatus, fossarius, gibbus, globosus, granulatus, grignonensis, helveticus, hemisphaericus, hoffmanni, integer, intermedius, lacunosus, laevis, lateralis, leskei, loncophorus, meridionalis, murchisoni, murchisonianus, nicoleti, nodulosus, obesus, obliquatus, oblongus, ocellatus, omalii, ornatus, orthonotus, ovalis, ovatus, parieti, parastatus, parkinsoni, pendulus, petalodes, philippii, pilula, placenta, planus, praelongus, prunella, pulchellus, punctatus, purpureus, pusillus, pustulatus, radiatus, regina, requieni, retusus, rissoi, rostratus, scillae, sculus, simplex, stella, striato-radiatus, subalpinus, subglobosus, suborbicularis, truncatus, tuberculatus, veronensis.

Sphaerechinus, 134 : brevispinosus, marii.

Stenonia, 333 : tuberculata.

Stigmatopygus, 296 : bervillei, elatus, galeatus.

Stirechinus, 131 : scillae.

Stomechinus, 124 : anensis, apertus, aroviante, bigranularis, calloviensis, caumonti, diademoides, excavatus, germinans, gyratus, laevis, lineatus, michelini, microcyphus, monsbiligardensis, multigranularis, nudus, orbigny-anus, perlatus, polyporus, pulcher, pyramidatus, robinaldinus, semiplacenta, serialis, serratus, subconoïdeus, vacheyi.

Styrechinus, err. pro Stirechinus (q.v.)

Temnechinus, 105 : excavatus, globosus, melo-cactus, turbinatus.

Temnopleurus, 104 : areolatus, coelatus, costatus, pulchellus, rousseaui, toreumaticus, tuberculosus, valenciennesii, woodi.

Tetragramma : brongniarti, depressum, planissimum.

Tetrapygus, 113.

Toxaster, 350 : amplus, argilaceus, bertheloti, breyniusanus, brunneri, campichei, collegnii, collombi, complanatus, couloni, cuneiformis, gibbus, granosus, inflatus, intermedius, leymmerianus, micrasteriformis, neocomiensis, nicaeensis, oblongus, renevieri, ricordeanus, roulini, semistriatus, sentisianus, subcylindricus, texanus, tschudii, verany.

Toxobryssus, 399 : crescenticus, elegans, genei, michelotti, latior.

Toxopneustes, 135 : lividus, neglectus.

Trematopygus, 262 : analis, archiaci, campicheanus, crucifer, grasanus, oblongus, olfersii, ricordeanus.

Tripneustes, 132 : parkinsoni, planus.

Tripylus, 389.

LONDON:

PRINTED BY WILLIAM CLOWES AND SONS, LIMITED,
DUKE STREET, STAMFORD STREET, S.E., AND GREAT WINDMILL STREET, W.



